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Glazer, Edward
Houghton, Michael

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ttcaagcaat c atg gat gca atg aag aga ggg ctc tgc tgt gtg ctg ctg 2030
Met Asp Ala Met Lys Arg Gly Leu Cys Cys Val Leu Leu
1 5 10

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Leu Cys Gly Ala Val Phe Val Ser Pro Ser Ala Ser Tyr Gln Val Arg
15 20 25

aac agc acc ggc ctg tac cac gtg acc aac gac tgc ccc aac agc agc 2126
Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys Pro Asn Ser Ser
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atc gtg tac gag gcc gcc gac gcc atc ctg cac acc ccc ggc tgc gtg 2174
Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Thr Pro Gly Cys Val
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ccc tgc gtg cgc gag ggc aac gcc agc cgc tgc tgg gtg gcc atg acc 2222
Pro Cys Val Arg Glu Gly Asn Ala Ser Arg Cys Trp Val Ala Met Thr
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Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Ala Thr Gln Leu Arg
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cgc cac atc gac ctg ctg gtg ggc agc gcc acc ctg tgc agc gcc ctg 2318
Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu Cys Ser Ala Leu
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Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val Gly Gln Leu Phe
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acc ttc agc ccc cgc cgc cac tgg acc acc cag ggc tgc aac tgc agc 2414
Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Gly Cys Asn Cys Ser
130 135 140

atc tac ccc ggc cac atc acc ggc cac cgc atg gcc tgg gac atg atg 2462
Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala Trp Asp Met Met
145 150 155

atg aac tgg agc ccc acc acc atg gag aac atc aca tca gga ttc cta 2510
Met Asn Trp Ser Pro Thr Thr Met Glu Asn Ile Thr Ser Gly Phe Leu
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Ser Asn His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg	
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Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu	
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<211> 390

<212> PRT

<213> Artificial Sequence

<220>

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Gly	Leu	Tyr	His	Val	Thr	Asn	Asp	Cys	Pro	Asn	Ser	Ser	Ile	Val	Tyr
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Glu	Ala	Ala	Asp	Ala	Ile	Leu	His	Thr	Pro	Gly	Cys	Val	Pro	Cys	Val
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Arg	Glu	Gly	Asn	Ala	Ser	Arg	Cys	Trp	Val	Ala	Met	Thr	Pro	Thr	Val
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Ala	Thr	Arg	Asp	Gly	Lys	Leu	Pro	Ala	Thr	Gln	Leu	Arg	Arg	His	Ile
				85					90					95	
Asp	Leu	Leu	Val	Gly	Ser	Ala	Thr	Leu	Cys	Ser	Ala	Leu	Tyr	Val	Gly
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	130					135					140				

Gly	His	Ile	Thr	Gly	His	Arg	Met	Ala	Trp	Asp	Met	Met	Met	Asn	Trp	145	150	155	160
Ser	Pro	Thr	Thr	Met	Glu	Asn	Ile	Thr	Ser	Gly	Phe	Leu	Gly	Pro	Leu	165	170	175	
Leu	Val	Leu	Gln	Ala	Gly	Phe	Phe	Leu	Leu	Thr	Arg	Ile	Leu	Thr	Ile	180	185	190	
Pro	Gln	Ser	Leu	Asp	Ser	Trp	Trp	Thr	Ser	Leu	Asn	Phe	Leu	Gly	Gly	195	200	205	
Ser	Pro	Val	Cys	Leu	Gly	Gln	Asn	Ser	Gln	Ser	Pro	Thr	Ser	Asn	His	210	215	220	
Ser	Pro	Thr	Ser	Cys	Pro	Pro	Ile	Cys	Pro	Gly	Tyr	Arg	Trp	Met	Cys	225	230	235	240
Leu	Arg	Arg	Phe	Ile	Ile	Phe	Leu	Phe	Ile	Leu	Leu	Leu	Cys	Leu	Ile	245	250	255	
Phe	Leu	Leu	Val	Leu	Leu	Asp	Tyr	Gln	Gly	Met	Leu	Pro	Val	Cys	Pro	260	265	270	
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Thr	Thr	Pro	Ala	Gln	Gly	Asn	Ser	Met	Phe	Pro	Ser	Cys	Cys	Cys	Thr	290	295	300	
Lys	Pro	Thr	Asp	Gly	Asn	Cys	Thr	Cys	Ile	Pro	Ile	Pro	Ser	Ser	Trp	305	310	315	320
Ala	Phe	Ala	Lys	Tyr	Leu	Trp	Glu	Trp	Ala	Ser	Val	Arg	Phe	Ser	Trp	325	330	335	
Leu	Ser	Leu	Leu	Val	Pro	Phe	Val	Gln	Trp	Phe	Val	Gly	Leu	Ser	Pro	340	345	350	
Thr	Val	Trp	Leu	Ser	Ala	Ile	Trp	Met	Met	Trp	Tyr	Trp	Gly	Pro	Ser	355	360	365	
Leu	Tyr	Ser	Ile	Val	Ser	Pro	Phe	Ile	Pro	Leu	Leu	Pro	Ile	Phe	Phe	370	375	380	
Cys	Leu	Trp	Val	Tyr	Ile											385	390		

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<211> 5882

<212> DNA

<213> Artificial Sequence

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pCMV-II-E2661-sAg

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Leu Cys Gly Ala Val Phe Val Ser Pro Ser Ala Ser Glu Thr His Val
15 20 25
acc ggg gga agt gcc ggc cac act gtg tct gga ttt gtt agc ctc ctc 2126
Thr Gly Gly Ser Ala Gly His Thr Val Ser Gly Phe Val Ser Leu Leu
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gca cca ggc gcc aag cag aac gtc cag ctg atc aac acc aac ggc agt 2174
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Trp His Leu Asn Ser Thr Ala Leu Asn Cys Asn Asp Ser Leu Asn Thr
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Gly Trp Leu Ala Gly Leu Phe Tyr His His Lys Phe Asn Ser Ser Gly
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Cys Pro Glu Arg Leu Ala Ser Cys Arg Pro Leu Thr Asp Phe Asp Gln
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Gly Trp Gly Pro Ile Ser Tyr Ala Asn Gly Ser Gly Pro Asp Gln Arg
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Pro Tyr Cys Trp His Tyr Pro Pro Lys Pro Cys Gly Ile Val Pro Ala

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Cys	Asn	Trp	Thr	Arg	Gly	Glu	Arg	Cys	Asp	Leu	Glu	Asp	Arg	Asp	Arg					
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Ser	Glu	Ile	Asp	Met	Glu	Asn	Ile	Thr	Ser	Gly	Phe	Leu	Gly	Pro	Leu					
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Leu	Val	Leu	Gln	Ala	Gly	Phe	Phe	Leu	Leu	Thr	Arg	Ile	Leu	Thr	Ile					
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ccg	cag	agt	cta	gac	tcg	tgg	tgg	act	tct	ctc	aat	ttt	cta	ggg	gga	3038				
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Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro	
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Thr Val Trp Leu Ser Ala Ile Trp Met Met Trp Tyr Trp Gly Pro Ser	
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Cys Leu Trp Val Tyr Ile	
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<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: plasmid
pCMV-II-E2661-sAg

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Ser	Ala	Gly	His	Thr	Val	Ser	Gly	Phe	Val	Ser	Leu	Leu	Ala	Pro	Gly
		35					40					45			
Ala	Lys	Gln	Asn	Val	Gln	Leu	Ile	Asn	Thr	Asn	Gly	Ser	Trp	His	Leu
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Asn	Ser	Thr	Ala	Leu	Asn	Cys	Asn	Asp	Ser	Leu	Asn	Thr	Gly	Trp	Leu
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Ala	Gly	Leu	Phe	Tyr	His	His	Lys	Phe	Asn	Ser	Ser	Gly	Cys	Pro	Glu
				85					90					95	
Arg	Leu	Ala	Ser	Cys	Arg	Pro	Leu	Thr	Asp	Phe	Asp	Gln	Gly	Trp	Gly
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Pro	Ile	Ser	Tyr	Ala	Asn	Gly	Ser	Gly	Pro	Asp	Gln	Arg	Pro	Tyr	Cys
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Trp	His	Tyr	Pro	Pro	Lys	Pro	Cys	Gly	Ile	Val	Pro	Ala	Lys	Ser	Val
	130					135						140			

Cys Gly Pro Val Tyr Cys Phe Thr Pro Ser Pro Val Val Val Gly Thr
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 Thr Asp Arg Ser Gly Ala Pro Thr Tyr Ser Trp Gly Glu Asn Asp Thr
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 Asp Val Phe Val Leu Asn Asn Thr Arg Pro Pro Leu Gly Asn Trp Phe
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 Gly Cys Thr Trp Met Asn Ser Thr Gly Phe Thr Lys Val Cys Gly Ala
 195 200 205
 Pro Pro Cys Val Ile Gly Gly Ala Gly Asn Asn Thr Leu His Cys Pro
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 Thr Asp Cys Phe Arg Lys His Pro Asp Ala Thr Tyr Ser Arg Cys Gly
 225 230 235 240
 Ser Gly Pro Trp Ile Thr Pro Arg Cys Leu Val Asp Tyr Pro Tyr Arg
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 Leu Trp His Tyr Pro Cys Thr Ile Asn Tyr Thr Ile Phe Lys Ile Arg
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 Met Tyr Val Gly Gly Val Glu His Arg Leu Glu Ala Ala Cys Asn Trp
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 Thr Arg Gly Glu Arg Cys Asp Leu Glu Asp Arg Asp Arg Ser Glu Ile
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 325 330 335
 Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ser Pro Val
 340 345 350
 Cys Leu Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr
 355 360 365
 Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg
 370 375 380
 Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu
 385 390 395 400
 Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Ile Pro
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 Gly Ser Thr Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Thr Pro
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Ala Gln Gly Asn Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Thr
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Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala
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Lys Tyr Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu
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Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp
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Leu Ser Ala Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Ser
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Ile Val Ser Pro Phe Ile Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp
 515 520 525

Val Tyr Ile
 530